

39. (once amended) An isolated nucleic acid encoding a sensory cell specific polypeptide that specifically hybridizes under highly stringent conditions to a nucleic acid having the sequence of SEQ ID NO:12 or SEQ ID NO:13, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

B1
40. (once amended) An isolated nucleic acid encoding a sensory cell specific polypeptide, the polypeptide comprising greater than about 70% amino acid sequence identity to an amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4, wherein said nucleic acid selectively hybridizes under moderately stringent hybridization conditions to a nucleotide sequence of SEQ ID NO:12 or SEQ ID NO:13, wherein the hybridization reaction is incubated at 37°C in a solution comprising 40% formamide, 1 M NaCl, and 1% SDS and washed at 45°C in a solution comprising 1x SSC.

94. (new) An isolated nucleic acid encoding a sensory cell specific polypeptide comprising an amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4 or an antigenic fragment thereof.

Reamended
95. (new) An isolated nucleic acid encoding a sensory cell specific polypeptide, wherein the polypeptide has a predicted molecular weight of approximately 85 KDa, and wherein the nucleic acid specifically hybridizes under stringent hybridization conditions to a nucleic acid having the sequence of SEQ ID NO:12 or SEQ ID NO:13, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

96. (new) An isolated nucleic acid encoding a sensory cell specific G polypeptide comprising greater than about 70% amino acid identity to a polypeptide comprising an amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4, which polypeptide has a predicted molecular weight of approximately 85 KDa.